

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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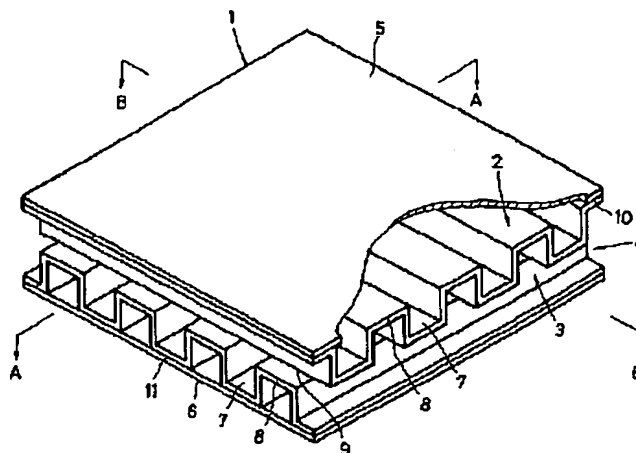
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APPLICANT : NIPPON STEEL CORP;

INVENTOR : SAITO HITOSHI;

INT.CL. : H05K 9/00 E04B 1/92 E04C 2/32

TITLE : MAGNETIC SHIELD PANEL



**ABSTRACT :** PROBLEM TO BE SOLVED: To reduce the weight and enhance mechanical strength of a magnetic shield panel by a method wherein a directional electromagnetic steel plate is turned into a corrugated steel plate by processing so as to align its corrugations with an axis of easy magnetization, and the corrugated directional electromagnetic steel plates are laminated into one piece.

**SOLUTION:** A magnetic shield panel 1 is composed of two directional electromagnetic steel plates 2 and 3 which are laminated into a panel body 4 and an upper and a lower non-directional electromagnetic plate, 5 and 6, which are provided to the upside and underside of the panel body 4. The two directional electromagnetic steel plates 2 and 3 are turned corrugated by processing so as to align their U-shaped recessed 7 and inverted-U shaped projections 8 with a direction of rolling or an axis <100> of easy magnetization, the directional electromagnetic steel plates 2 and 3 are made to overlap with each other so as to make their corrugations intersect each other at right angles and fixed together by welding at a joint 9. The non-directional electromagnetic steel plates 5 and 6 and the directional electromagnetic steel plates 2 and 3 are joined together by welding at joints 10 and 11.

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